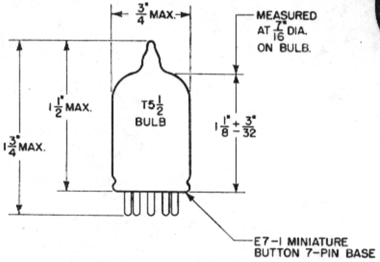
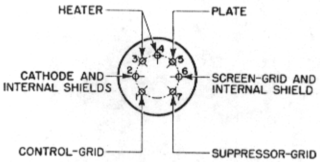
ADVANCE ELECTRON TUBE DATA SHEET

WESTERN ELECTRIC 415A ELECTRON TUBE

415A
MINIATURE PENTODE UHF





DESCRIPTION

Miniature Suppressor-Grid Pentode

MOUNTING

This tube may be mounted in any position.

HEATER RATING

Heater Voltage, A-C or D-C	6.3	volts
Nominal Heater Current	150	milliamperes

MAXIMUM RATINGS (Design Center Values)

Plate Voltage	180	volts
Screen-Grid Voltage	140	volts
Positive Suppressor-Grid Voltage	27	volts
Plate Dissipation	1.7	watts
Screen-Grid Dissipation	0.75	watt
Cathode Current	18	milliamperes
Heater-Cathode Voltage	90	volts
Bulb Temperature	120	centigrade

OPERATING CONDITIONS AND CHARACTERISTICS

Plate Voltage	120	120	volts
Screen-Grid Voltage	120	120	volts
Suppressor-Grid Voltage	-3	0	volts
Control-Grid Voltage	-2	-2	volts
Plate Current	3.6	5.2	milliamperes
Screen-Grid Current	4.8	3.5	milliamperes
Transconductance, Control-Grid	1850	3200	μmhos
Transconductance, Suppressor-Grid	810	470	μmhos

Western Electric

CONTROL-GRID PLATE CURRENT CUT-OFF CHARACTERISTICS

Plate Voltage	120	volts
Screen-Grid Voltage	120	volts
Suppressor-Grid Voltage	0	volts
Control-Grid Voltage (approximate) for Plate Current of 10 Microamperes	-7.5	volts

SUPPRESSOR-GRID PLATE CURRENT CUT-OFF CHARACTERISTICS

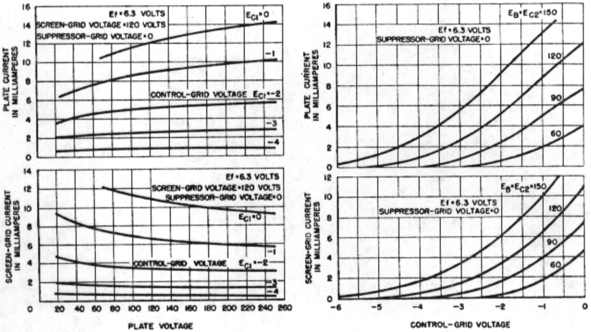
Plate Voltage	120	volts
Screen-Grid Voltage	120	volts
Control-Grid Voltage	-2	volts
Suppressor-Grid Voltage (approximate) for Plate Current of 10 Microamperes	-10	volts

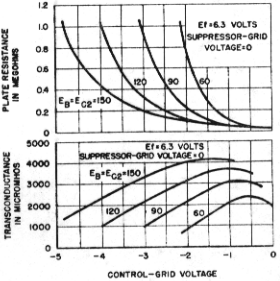
INTERELECTRODE CAPACITANCES (With RMA No. 316 Shield)

Plate to Control-Grid. Maximum	*0.014	μμf
Input (G1 to Heater, Cathode, G2 & G3)	*3.9	μμf
Output(Plate to Heater, Cathode, G2 & G3)	*3.0	μμf
Control-Grid to Suppressor-Grid	*0.1	μμf

*External shield connected to cathode-pin #2.

NORMAL PENTODE CHARACTERISTICS





SUPPRESSOR-GRID CHARACTERISTICS

